

(19) World Intellectual Property
Organization
International Bureau



550 621

(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/087668 A1

(51) International Patent Classification⁷: **C07D 215/26**

(21) International Application Number:
PCT/EP2004/003479

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/459,724 2 April 2003 (02.04.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A PROCESS FOR THE PREPARATION OF 5-(HALOACETYL)-8-(SUBSTITUTED OXY)-(1H)-QUINOLIN-2-ONES

(57) Abstract: The invention relates to a process for preparing 5-(α -haloacetyl)-8-substituted oxy-(1H)-quinolin-2-ones. The process involves (i) reacting (a) 8-hydroxy-(1H)-quinolin-2-one with an acylating agent and a Lewis acid to form 5-acetyl-8-hydroxy-(1H)-quinolin-2-one; or (b) 8-hydroxy-(1H)-quinolin-2-one with an acylating agent to form 8-acetoxy-(1H)-quinolin-2-one, and treating, in-situ, the 8-acetoxy-(1H)-quinolin-2-one with a Lewis acid to form 5-acetyl-8-hydroxy-(1H)-quinolin-2-one; or (c) 8-acetoxy-(1H)-quinolin-2-one with a Lewis acid to form 5-acetyl-8-hydroxy-(1H)-quinolin-2-one; (ii) reacting the 5-acetyl-8-hydroxy-(1H)-quinolin-2-one prepared in Step (i) with a compound having the Formula RL in the presence of a base and a solvent to form 5-acetyl-8-substituted oxy-(1H)-quinolin-2-one, wherein R is a protecting group and L is a leaving group; and (iii) reacting the 5-acetyl-8-substituted oxy-(1H)-quinolin-2-one with a halogenating agent in the presence of a solvent to form a 5-(α -haloacetyl)-8-substituted oxy-(1H)-quinolin-2-one.



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